

## **ABSTRACT**

### **RECIPROCATING DEVICE FOR WINDING A YARN IN THE FORM OF A PACKAGE**

This device for winding, at high speed, a yarn onto a rotating support and comprising a yarn delivery system (5, 6), displaced so as to undergo a to-and-fro movement parallel to the surface of said support with rapid deceleration and acceleration at the point of reversal of the to-and-fro movement, is noteworthy in that the depositing yarn guide (6) is displaced by means of a moving element or cursor (5) associated with a magnetized plate (1) of a linear motor, supplied with two-phase or three-phase current, and in which the stator is formed by at least one assembly of elementary modules placed either face to face or placed so that each lies in the extension of another, each having a plurality of C-shaped magnetic circuits (4) that define, between the ends of their separated legs, an airgap inside which the magnetized plate (1) is positioned, comprising an alternation of North and South poles (N and S), which constitutes the moving element that displaces the cursor (5) carrying the yarn guide (6).

REFERENCE: FIGURE 3